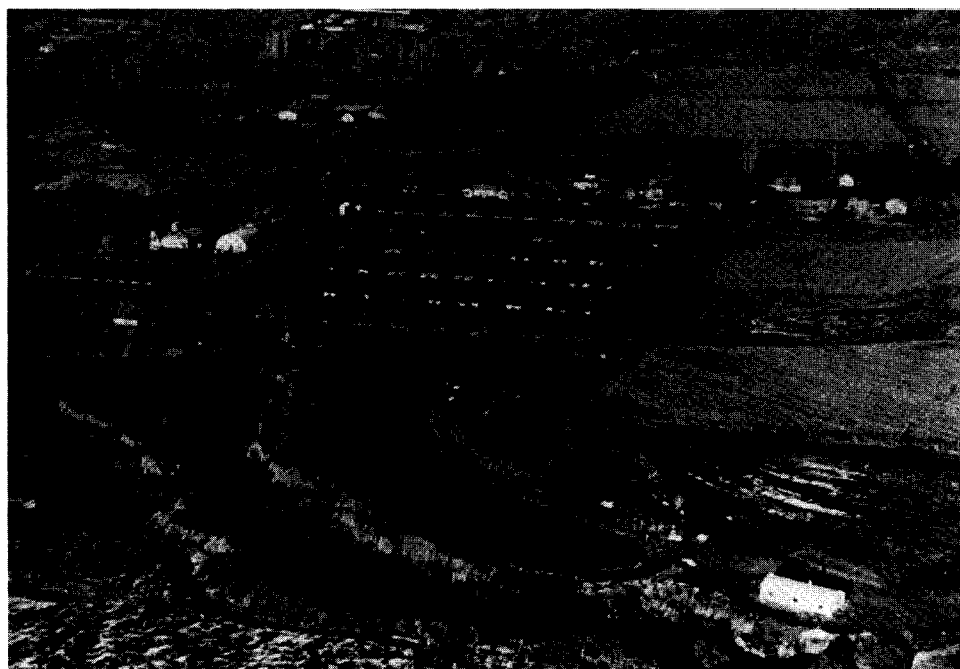




HAGERMAN HATCHERY

Annual Report

October 1, 1984 to September 30, 1985



by

Burton D. Ainsworth
Hatchery Superintendent II

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ABSTRACT

The objective of Hagerman Hatchery was to raise 3,250,000 rainbow, Kamloops, cutthroat and brown trout for streams, lakes and reservoirs throughout Idaho.

The hatchery planted or transferred 3,345,228 fish of the above-referenced species weighing 408,766 pounds.

It took 754,680 pounds of feed with a conversion of 1.85 pounds of feed to produce a pound of fish. The total expenditure for the year, excluding capital outlay, was \$328,993.46. The cost per pound of fish produced was 80 cents.

Author:

Burton D. Ainsworth Jr.
Fish Hatchery Superintendent IIII

INTRODUCTION

Hagerman Hatchery is located in south-central Idaho in Gooding County in the Hagerman Valley.

Tucker Springs and Riley Creek supply the 115 cfs of water needed to operate at full capacity.

The hatchery facility includes 24 raceways that are 570 ft. long, and varying in width from 6 ft. to 15 ft., 18 fingerling raceways measuring 2 1/2 ft. x 100 ft. and 28 cement vats in the incubation building that are 3 ft. x 15 ft.

The hatchery is capable of rearing 500,000 pounds of salmonids at the present stocking schedule.

OBJECTIVE

To raise 3,250,000 rainbow, Kamloops, cutthroat and brown trout of all sizes for streams, lakes and reservoirs throughout Idaho.

FISH PRODUCTION

Rainbow Trout

Rainbow trout was the primary species reared at the Hagerman Hatchery. At the start of the year, there were 905,257 fish weighing 62,457 pounds. The year ended with 2,041,257 fish weighing 94,812 pounds.

The hatchery received 4,794,686 eggs from Mt. Lassen (California), Ennis (NFH, Montana) and White Sulphur Springs (NFH, West Virginia).

There were 1,626,037 fish weighing 341,036 pounds stocked in waters of the state.

Some 619,662 rainbow weighing 1,788 pounds were received from Grace Hatchery, and 375,310 fish weighing 29,500 pounds were stocked. There were 399,713 fish weighing 1,223 pounds received from American Falls Hatchery, and 276,000 fish weighing 7,425 pounds were stocked. Hayspur Hatchery transferred 320,631 rainbow weighing 594 pounds to Hagerman, and 138,201 fish weighing 38,440 pounds were stocked.

Kamloops Trout

There were 944,236 eggs received from Skane Fish Farm (Washington), and 657,325 fish weighing 26,100 pounds were stocked. The hatchery also received 109,551 Duncan River-strain Kamloops eggs and planted 26,100 fingerlings.

Brown Trout

Hagerman received 159,000 fish weighing 875 pounds from Grace Hatchery and stocked 139,658 fish weighing 7,825 pounds. Mackay Hatchery transferred 129,600 browns weighing 1,400 pounds, and 123,597 fish weighing 5,100 pounds were stocked.

Cutthroat Trout

The hatchery received 51,300 cutthroat weighing 114 pounds and planted 47,946 fish weighing 115 pounds.

Steelhead Trout

A small number of steelhead trout were transferred to the Hagerman State Hatchery from the Tunison Lab (Hagerman NFH) for observation concerning PKD and other diseases. The original number of fish was 1,245, and the number planted after the experiment was 770 fish weighing 700 pounds.

FISH HEALTH

Disease problems encountered this year included infectious hematopoietic necrosis (IHN) and infectious pancreatic necrosis (IPN), causing a loss of 1,100,000 fish of all sizes. There is no known treatment, but preventative measures used included taking the fish off feed for several days and keeping them from getting overcrowded.

A recurring disease present in the larger, longer raceways was bacterial gill disease, causing mortalities of 150,000 fish. The treatment for this disease was either chloramine T, or the combination of cutrine and benzalkonium chloride.

Losses of eggs and fish were encountered in the hatchery incubation building from shipping, measuring, coagulated egg sac, premature hatching and costia. Total losses from these conditions were approximately 250,000.

Some minor problems were caused by Gyrodactylus, Epistylis and Trichodina, causing a loss of 50,000 fish.

A loss of 25,000 fingerling rainbow was caused by a small outbreak of Columnaris.

The ever present bird populations of gulls, night herons, blue herons, kingfishers and ducks caused the unseen loss of 150,000 fish. The bird wires completed over the larger raceways a year ago have eliminated the gull problem. Ducks that arrive in the fall to the management area and overwinter are a major problem: they either walk or fly into the larger raceways and feed on the smaller fish. Therefore, the bird wires overhead do not hinder the flight of ducks.

Proliferative kidney disease (PKD) was still present in some of the fish reared in Riley Creek water. Very little loss was attributed to PKD.

FISH TRANSFERS

One load of 23,800 rainbow trout weighing 7,000 pounds was transferred to Mackay Hatchery, and all remaining fish were direct plants.

FISH RELEASES

The following chart shows the number and pounds of each species planted in each region of the state:

<u>Region</u>	<u>Species</u>	<u>Number</u>	<u>Pounds</u>
1	Rainbow trout	38,205	13,300
	Kamloops trout	26,100	900
2	Rainbow trout	100,224	39,640
3	Rainbow trout	116,800	28,200
4	Rainbow trout	988,701	148,779
	Kamloops trout	640,325	15,150
	Brown trout	269,270	12,994
	Cutthroat trout	47,946	115
	Steelhead trout	770	700
5	Rainbow trout	259,115	70,850
6	Rainbow trout	782,270	77,400

SPAWN-TAKING OPERATION

The only spawn-taking operation that the Hagerman Hatchery personnel were involved in was the installation and removal of the kokanee trap on the South Fork Boise River near Pine.

FISH FEED UTILIZED

Size	Pounds	Cost
Starter	600	\$ 157.08
No. 1	2,050	557.15
No. 2	13,700	3,963.61
No. 2 - medicated	350	140.88
No. 3	20,900	5,698.56
No. 4	73,280	13,723.83
No. 5	50,140	9,058.85
3/32 pellets	14,940	2,314.21
4/32 pellets	450,420	74,568.62
5/32 pellets	120,500	18,665.45
5/32 pellets	<u>3,000</u>	<u>952.20</u>
Total	749,880	\$129,800.44

Total number of pounds of feed = 749,880
Total cost of feed = \$129,800.44
Number of pounds of fish produced = 408,766
Cost per pound of fish produced = 80 cents

MISCELLANEOUS ACTIVITIES

Hatchery personnel assisted with sage grouse check stations and upland game bird patrol. A number of high school and grade school students were given tours of the hatchery. Approximately 44,000 people visited the hatchery during the year either observing, fishing, or hunting on the management area.

ACKNOWLEDGEMENTS

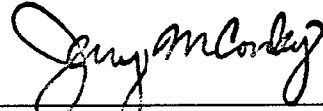
Hatchery staffing during the year included: Bud Ainsworth, Fish Hatchery Superintendent III; Fenton Hays, Fish Hatchery Superintendent II; Paul Smith, Fish Culturist; David May, Fish Culturist, Larry Barrett, Bio-Aide; Don Clark, Laborer; YCC crew of nine with a crew leader for 8 weeks; and 2 JTPA high-school-age employees.

Submitted by:

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Approved by:

IDAHO DEPARTMENT OF FISH AND GAME



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